



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **1** of **4****Complete if Known**

Application Number	10/037,593
Filing Date	October 19, 2001
First Named Inventor	Matthew P. Kulig
Art Unit	2457
Examiner Name	Barbara N. Burgess
Attorney Docket Number	60022210-0157

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	LC	US 5,077,665	12-31-1991	Silverman et al.	
	LD	US 5,740,244	04-14-1998	Indeck et al.	
	LE	US 5,870,730	02-09-1999	Furuya et al.	
	LF	US 5,978,801	11-02-1999	Yuasa	
	LG	US 5,995,963	11-30-1999	Nanba et al.	
	LH	US 6,564,263 B1	05-13-2003	Bergman et al.	
	LI	US 6,850,906 B1	02-01-2005	Chadha et al.	
	LJ	US 6,870,837 B2	03-22-2005	Ho et al.	
	LK	US 7,019,674 B2	03-28-2006	Cadambi et al.	
	LL	US 7,181,608 B2	02-20-2007	Fallon et al.	
	LM	US 7,251,629 B1	07-31-2007	Marynowski et al.	
	LN	US 7,286,564 B2	10-23-2007	Roberts	
	LO	US 2006/0259417 A1	11-16-2006	Marynowski et al.	
	LP	US 2006/0294059 A1	12-28-2006	Chamberlain et al.	
	LQ	US 2007/0067108 A1	03-22-2007	Buhler et al.	
	LR	US 2007/0078837 A1	04-05-2007	Indeck et al.	
	LS	US 2007/0118500 A1	05-24-2007	Indeck et al.	
	LT	US 2007/0130140 A1	06-07-2007	Cytron et al.	
	LU	US 2007/0174841 A1	07-26-2007	Chamberlain et al.	
	LV	US 2007/0277036 A1	11-29-2007	Chamberlain et al.	
	LW	US 2008/0114760 A1	05-15-2008	Indeck et al.	

Examiner
Signature

/Barbara Burgess/

Date

Considered

11/06/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.B./

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/037,593	
			Filing Date	October 19, 2001	
			First Named Inventor	Matthew P. Kulig	
			Art Unit	2457	
Examiner Name	Barbara N. Burgess				
Attorney Docket Number	60022210-0157				
Sheet	2	of	4		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	LX	US 2008/0126320 A1	05-29-2008	Indeck et al.	
	LY	US 2008/0133453 A1	06-05-2008	Indeck et al.	
	LZ	US 2008/0133519 A1	06-05-2008	Indeck et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	MA	WO 03/100662 A2	12-04-2003	Washington University		
	MB	WO 2005/048134 A2	05-26-2005	Washington University		
	MC	WO 2006/096324 A2	09-14-2006	Washington University		
	MD	WO 2008/022036 A2	02-21-2008	Washington University & Bees Technology, Inc.		

Examiner Signature	/Barbara Burgess/	Date Considered	11/06/2009
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

27266308V-1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.B./

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/037,593
				Filing Date	October 19, 2001
				First Named Inventor	Matthew P. Kulig
				Group Art Unit	2457
				Examiner Name	Barbara N. Burgess
Sheet	3	of	4	Attorney Docket No.	60022210-0157
OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	ME	ALTSCHUL, Stephen F., "Basic Local Alignment Search Tool", <u>Journal of Molecular Biology</u> , 215(3):403-410, Oct. 5, 1990.			
	MF	CAVNAR, William B. et al., "N-Gram-Based Text Categorization", <u>Proceedings of SDAIR-94, 3rd Annual Symposium on Document Analysis and Information Retrieval</u> , Las Vegas, pp. 161-175, 1994.			
	MG	FORGY, Charles L., "Rete: A Fast Algorithm for the Many Pattern/Many Object Pattern Match Problem", <u>Artificial Intelligence</u> , 19:17-37, 1982, Noth Holland; received May 1980, revised version received April 1981.			
	MH	HOINVILLE, Jay R. et al., "Spatial Noise Phenomena of Longitudinal Magnetic Recording Media", <u>IEEE Transactions on Magnetics</u> , Vol. 28, No. 6, November 1992, New York, NY.			
	MI	JEANMOUGIN, François et al., "Multiple sequence alignment with Clustal X", <u>Trends in Biochemical Sciences</u> , 23(10): 403-405, October 1, 1998, Elsevier Science Ltd.			
	MJ	JONES, K. Sparck et al., "A probabilistic model of information retrieval: development and status", <u>Information Processing and Management</u> , 36(6):779-840, Cambridge, UK, August 1998.			
	MK	JUNG, Bongjin et al., "Efficient VLSI for Lempel-Ziv Compression in Wireless Data Communication Networks", <u>IEEE Transactions on VLSI Systems</u> , 6(3):475-483, Sept. 1998, Institute of Electrical and Electronics Engineers, Washington, DC.			
	ML	PIRSCH, Peter, et al., "VLSI Architectures for Video Compression-A Survey", <u>Proceedings of the IEEE</u> , 83(2):220-246, February 1995, Institute of Electrical and Electronics Engineers, Washington, DC.			
Examiner Signature	/Barbara Burgess/			Date Considered	11/06/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

27268308V-1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.B./

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/037,593
				Filing Date	October 19, 2001
				First Named Inventor	Matthew P. Kulig
				Group Art Unit	2457
				Examiner Name	Barbara N. Burgess
Sheet	4	of	4	Attorney Docket No.	60022210-0157
OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	MM	RANGANATHAN, N. et al., "High-speed VLSI Designs for Lempel-Ziv-Based Data Compression", <u>IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing</u> , 40(2):96-106, February 1993, Institute of Electrical and Electronics Engineers, Washington, DC.			
	MN	RATHA, Nalini K. et al., "FPGA-based coprocessor for text string extraction", <u>Proceedings. Fifth IEEE International Workshop on Computer Architectures for Machine Perception</u> , Padova, Italy, Sept. 11-13, 2000, pp. 217-221.			
	MO	ROESCH, Martin, "Snort -- Lightweight Intrusion Detection for Networks", <u>Proceedings of LISA '99: 13th Systems Administration Conference</u> , pp. 229-238, Seattle, WA, Nov. 7-12, 1999.			
	MP	ROY, Kaushik, "A Bounded Search Algorithm for Segmented Channel Routing for FPGA'S and Associated Channel Architecture Issues", <u>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</u> , 12(11):1695 - 1705, Nov. 1993.			
	MQ	THOMPSON, Julie D. et al., "The CLUSTAL_X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools", <u>Nucleic Acids Research</u> , 25(24):4876-4882, Dec. 15, 1997; received September 24, 1997; revised and accepted Oct. 28, 1997.			
Examiner Signature	/Barbara Burgess/			Date Considered	11/06/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

27266308V-1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.B./